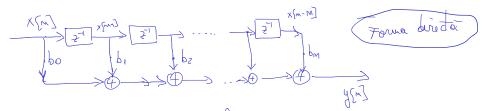
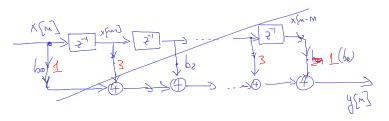
## Curs 03 PSS

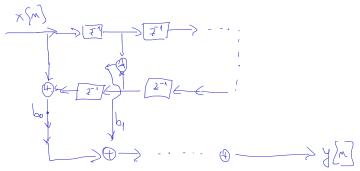


Optimizare pt. fiftre en foita liviano

$$h[n] = \pm h[M-n] \qquad h[n] = \left\{ \frac{1}{3}, \frac{2}{4}, \frac{4}{2}, \frac{3}{3}, \frac{1}{2} \right\}$$

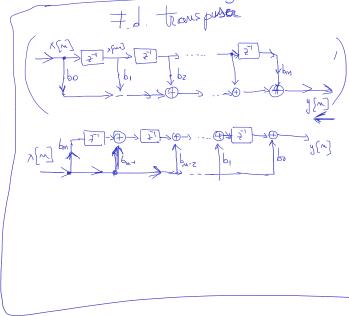
$$h[n] = \left\{ \frac{1}{3}, \frac{3}{2}, \frac{2}{3}, \frac{4}{2}, \frac{3}{3}, \frac{1}{2} \right\}$$





Serie (cascada)
$$H(z) = H_1(z_1) \cdot H_2(z) \cdot \dots \cdot H_k(z)$$

$$\Rightarrow H_1(z) \Rightarrow H_2(z) \Rightarrow H_2(z)$$



$$E_{\times}$$
:  $H(z) = 1 + 3z + 2z + 4z + 2z + 3z + z$ 

$$= (1 + 2.7515 + 2.7$$

$$H_{3}(z) = (1+2.7575z^{-1})(1+0.3634z^{-1}) = (1+3.115z^{-1}+10z^{-2})$$

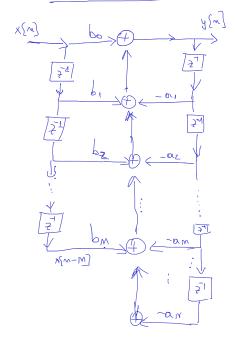
$$H_{2}(z) = (1-(6.4304+0.5026j)z^{-1}) \cdot (1-(0.4304-0.9026j)z^{-1}) = (1+0.3609z^{-1}+10z^{-2})$$

$$H_{3}(z) = (1-(-0.3729\pm0.9279j)z^{-1}) \cdot (1-(-0.3729\pm0.9279j)z^{-1}) = (1+0.7458z^{-1}+10z^{-2})$$

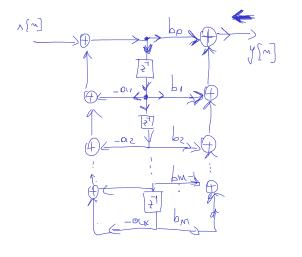
$$\frac{11}{11}R: H(z) = \frac{60 + 61z + 1 + 6mz}{1 + 01z + 1 + 4nz}$$

$$y[n] = -\alpha_1 y[n-2] - \dots - \alpha_n y[n-n] + \frac{1}{30 \times [n]} + \dots + \frac{1}{5n} x[n-m]$$

## Forma dirata 1



## Forma dirocta 2 (comonica)



## + d. 2 transpusa

